VOLVO PENTA

OIL ANALYSIS REPORT

502356 WESTERBEKE 9A0144-K1 - GENSET

Sample No: VPA058310

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

Sample Number		VPA058310	 	
Sample Date		20 Feb 2024	 	
Machine Hours		880	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.7	 	
Base Number (BN)	mg KOH/g	8.6	 	
Oxidation (PA)	%	50	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	60	 	
Sulfation (PA)	%	48	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	6	 	
Potassium	ppm	3	 	
WEAR METALS				
Iron	ppm	6	 	
Copper	ppm	 <1	 	
Lead	ppm	0	 	
Tin	ppm	 <1	 	
Aluminum	ppm	3	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	4	 	
Nickel	ppm	 <1	 	
Titanium	ppm	 <1	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1317	 	
Magnesium	ppm	775	 	
Zinc	ppm	889	 	
Phosphorus	ppm	766	 	
Barium	ppm	0	 	
Boron	ppm	92	 	

North Harbor Diesel Inc

720 30Th Street ANACORTES, WA JS 98221 Contact: ROBBIN MURDOCK robbin@northharbordiesel.com F: (360)299-1904 --

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP179089

 Unique No:
 10902239

 Signed:
 Don Baldridge

 Report Date:
 02 Mar 2024

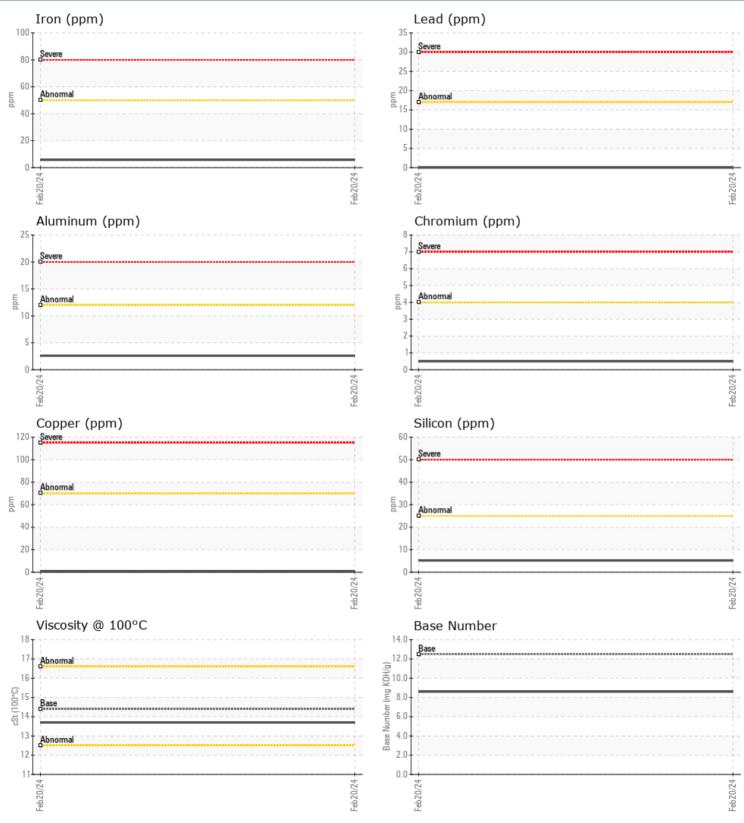
Report Id: VP179089 [WUSCAR] 06104009 (Generated: 03/02/2024 11:04:01) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 06104009 (Generated: 03/02/2024 11:04:03) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089